

What is claimed is:

1 1. A stator for a motor comprising:
2 a core having a hollow portion and a plurality of tooth
3 portions protruding from the hollow portion in a radial
4 manner;
5 a plurality of insulators, corresponding to the tooth
6 portions, disposed around the corresponding tooth portion
7 respectively;
8 a plurality of windings, corresponding to the insulators,
9 disposed around the corresponding insulator respectively;
10 and
11 a plurality of back-iron portions surrounding the core
12 and contacting the insulators along a direction opposite to
13 the protruding direction of the tooth portions.

1 2. The stator as claimed in claim 1, wherein the
2 back-iron portions are connected with each other by welding.

1 3. The stator as claimed in claim 1, wherein the
2 back-iron portions are connected with each other by adhesion.

1 4. The stator as claimed in claim 1, wherein each of the
2 back-iron portions is provided with a recessed portion and
3 a projecting portion, whereby the back-iron portions are
4 connected with each other by the engagement between the
5 recessed portion and the projecting portion.

1 5. The stator as claimed in claim 1, further comprising:
2 a restricting portion surrounding the back-iron
3 portions so that the back-iron portions contact each other
4 around the core.

1 6. The stator as claimed in claim 1, wherein the core

2 is magnetic material.

1 7. The stator as claimed in claim 1, wherein the
2 back-iron portions are magnetic material.

1 8. A stator for a motor comprising:
2 a core having a hollow portion and a plurality of tooth
3 portions protruding from the hollow portion in a radial manner;
4 and
5 a plurality of back-iron portions surrounding the core
6 and contacting the tooth portions along a direction opposite
7 to the protruding direction of the tooth portions.

1 9. The stator as claimed in claim 8, wherein the
2 back-iron portions are connected with each other by welding.

1 10. The stator as claimed in claim 8, wherein the
2 back-iron portions are connected with each other by adhesion.

1 11. The stator as claimed in claim 8, wherein each of
2 the back-iron portions is provided with a recessed portion
3 and a projecting portion, whereby the back-iron portions are
4 connected with each other by the engagement between the
5 recessed portion and the projecting portion.

1 12. The stator as claimed in claim 8, further comprising:
2 a restricting portion surrounding the back-iron
3 portions so that the back-iron portions contact each other
4 around the core.

1 13. The stator as claimed in claim 8, wherein the core
2 is magnetic material.

1 14. The stator as claimed in claim 8, wherein the
2 back-iron portions are magnetic material.